

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/374,338

Source: 1627

Date Processed by STIC: 11/13/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-1122 (R. WAX)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-1122 (R. WAX)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1627

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NOV 24 2000

TECH CENTER 160, 160

Does Not Comply
Corrected Diskette Need

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/374,338

DATE: 11/13/2000
 TIME: 17:24:43

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\11132000\I374338.raw

3 <110> APPLICANT: Heller, Michael J.
 4 Windhab, Norbert
 5 Anderson, Richard R.
 6 Ackley, Donald E.
 7 Nova, Tina S.
 8 Hoppe, Hans-Ullrich
 9 Hamon, Christian
 11 <120> TITLE OF INVENTION: MICROELECTRONIC MOLECULAR DESCRIPTOR ARRAY DEVICES, METHODS, PROCEDURES,
 12 AND FORMATS FOR COMBINATORIAL SELECTION OF INTERMOLECULAR LIGAND BINDING
 13 STRUCTURES AND FOR DRUG SCREENING
 15 <130> FILE REFERENCE: Patrick Eagleman: Nanogen 241/172
 17 <140> CURRENT APPLICATION NUMBER: 09/374,338
 18 <141> CURRENT FILING DATE: 1999-08-13
 20 <160> NUMBER OF SEQ ID NOS: 31
 22 <170> SOFTWARE: PatentIn version 3.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 7
 26 <212> TYPE: DNA
 27 <213> ORGANISM: SYNTHETIC CONSTRUCT
 29 <220> FEATURE:
 30 <221> NAME/KEY: modified_base
 31 <222> LOCATION: (1)..(7)
 32 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 35 <220> FEATURE:
 36 <221> NAME/KEY: modified_base
 37 <222> LOCATION: (1)..(1)
 38 <223> OTHER INFORMATION: Base 1 is tryptamine
 41 <220> FEATURE:
 42 <221> NAME/KEY: modified_base
 43 <222> LOCATION: (7)..(7)
 44 <223> OTHER INFORMATION: Base 7 is modified with Texas Red
 47 <400> SEQUENCE: 1
 48 ggaaggg
 51 <210> SEQ ID NO: 2
 52 <211> LENGTH: 14
 53 <212> TYPE: DNA
 54 <213> ORGANISM: SYNTHETIC CONSTRUCT
 56 <220> FEATURE:
 57 <221> NAME/KEY: modified_base
 58 <222> LOCATION: (1)..(14)
 59 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 62 <220> FEATURE:
 63 <221> NAME/KEY: modified_base
 64 <222> LOCATION: (1)..(1)
 65 <223> OTHER INFORMATION: Base 1 is modified with Biotin
 68 <220> FEATURE:
 69 <221> NAME/KEY: modified_base

is not a nucleotide base - "n" can
 only represent
 a nucleotide
 base

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70 <222> LOCATION: (8)..(8)
 71 <223> OTHER INFORMATION: Base 8 is tryptamine
 74 <400> SEQUENCE: 2
 W--> 75 cccttcttcc cccg 14
 78 <210> SEQ ID NO: 3
 79 <211> LENGTH: 7
 80 <212> TYPE: DNA
 81 <213> ORGANISM: SYNTHETIC CONSTRUCT
 83 <220> FEATURE:
 84 <221> NAME/KEY: modified_base
 85 <222> LOCATION: (1)..(7)
 86 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 89 <220> FEATURE:
 90 <221> NAME/KEY: modified_base
 91 <222> LOCATION: (1)..(1)
 92 <223> OTHER INFORMATION: Base 1 is modified with Cyanine-3 fluorescent dye
 95 <220> FEATURE:
 96 <221> NAME/KEY: modified_base
 97 <222> LOCATION: (7)..(7)
 98 <223> OTHER INFORMATION: Base 7 is tryptamine
 101 <400> SEQUENCE: 3
 W--> 102 cgggggg 7
 105 <210> SEQ ID NO: 4
 106 <211> LENGTH: 7
 107 <212> TYPE: DNA
 108 <213> ORGANISM: SYNTHETIC CONSTRUCT
 110 <220> FEATURE:
 111 <221> NAME/KEY: modified_base
 112 <222> LOCATION: (1)..(7)
 113 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 116 <220> FEATURE:
 117 <221> NAME/KEY: modified_base
 118 <222> LOCATION: (3)..(3)
 119 <223> OTHER INFORMATION: Base 3 is tryptamine
 122 <220> FEATURE:
 123 <221> NAME/KEY: modified_base
 124 <222> LOCATION: (4)..(4)
 125 <223> OTHER INFORMATION: Base 4 is tryptamine
 128 <220> FEATURE:
 129 <221> NAME/KEY: modified_base
 130 <222> LOCATION: (5)..(5)
 131 <223> OTHER INFORMATION: Base 5 is tryptamine
 134 <400> SEQUENCE: 4
 W--> 135 ccnnngg 7
 138 <210> SEQ ID NO: 5
 139 <211> LENGTH: 7
 140 <212> TYPE: DNA
 141 <213> ORGANISM: SYNTHETIC CONSTRUCT
 143 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 11/13/2000
 PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
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144 <221> NAME/KEY: modified_base
 145 <222> LOCATION: (1)..(7)
 146 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 149 <220> FEATURE:
 150 <221> NAME/KEY: modified_base
 151 <222> LOCATION: (1)..(1)
 152 <223> OTHER INFORMATION: Base 1 modified with Fluorophore
 155 <220> FEATURE:
 156 <221> NAME/KEY: modified_base
 157 <222> LOCATION: (7)..(7)
 158 <223> OTHER INFORMATION: Base 7 modified with a Peptide
 161 <220> FEATURE:
 162 <221> NAME/KEY: modified_base
 163 <222> LOCATION: (7)..(7)
 164 <223> OTHER INFORMATION: Base 7 is tryptamine
 167 <400> SEQUENCE: 5

W---> 168 cgggggn 7
 171 <210> SEQ ID NO: 6
 172 <211> LENGTH: 8
 173 <212> TYPE: DNA
 174 <213> ORGANISM: SYNTHETIC CONSTRUCT
 176 <220> FEATURE:
 177 <221> NAME/KEY: modified_base
 178 <222> LOCATION: (1)..(8)
 179 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 182 <220> FEATURE:
 183 <221> NAME/KEY: modified_base
 184 <222> LOCATION: (1)..(1)
 185 <223> OTHER INFORMATION: Base 1 modified with a Peptide
 188 <220> FEATURE:
 189 <221> NAME/KEY: modified_base
 190 <222> LOCATION: (1)..(1)
 191 <223> OTHER INFORMATION: Base 1 is tryptamine
 194 <220> FEATURE:
 195 <221> NAME/KEY: modified_base
 196 <222> LOCATION: (8)..(8)
 197 <223> OTHER INFORMATION: Base 8 is any nucleotide OK
 200 <400> SEQUENCE: 6

W---> 201 nnaagggg 8
 204 <210> SEQ ID NO: 7
 205 <211> LENGTH: 14
 206 <212> TYPE: DNA
 207 <213> ORGANISM: SYNTHETIC CONSTRUCT
 209 <220> FEATURE:
 210 <221> NAME/KEY: modified_base
 211 <222> LOCATION: (1)..(14)
 212 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
 215 <220> FEATURE:
 216 <221> NAME/KEY: modified_base

*Please edit any subsequent
 sequences containing
 this error.*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/374,338

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*location 7 is a base location
next location is base 8*

217 <222> LOCATION: (1)..(1)
218 <223> OTHER INFORMATION: Base 1 modified with Biotin
221 <220> FEATURE:
222 <221> NAME/KEY: modified_base
223 <222> LOCATION: (7)..(7)
224 <223> OTHER INFORMATION: Base 7 is tryptamine
227 <220> FEATURE:
228 <221> NAME/KEY: modified_base
229 <222> LOCATION: (7)..(8)
230 <223> OTHER INFORMATION: Base between 7 and 8 is modified with a Peptide
233 <400> SEQUENCE: 7
W--> 234 cccttccccccg 14
237 <210> SEQ ID NO: 8
238 <211> LENGTH: 6
239 <212> TYPE: PRT
240 <213> ORGANISM: SYNTHETIC CONSTRUCT
242 <220> FEATURE:
243 <221> NAME/KEY: PEPTIDE
244 <222> LOCATION: (1)..(1)
245 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
248 <400> SEQUENCE: 8
250 Cys Leu Ser Leu Glu Gly
251 1 5
253 <210> SEQ ID NO: 9
254 <211> LENGTH: 6
255 <212> TYPE: PRT
256 <213> ORGANISM: SYNTHETIC CONSTRUCT
258 <220> FEATURE:
259 <221> NAME/KEY: PEPTIDE
260 <222> LOCATION: (1)..(1)
261 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
264 <400> SEQUENCE: 9
266 Cys Ser Leu Glu Ser Gly
267 1 5
269 <210> SEQ ID NO: 10
270 <211> LENGTH: 6
271 <212> TYPE: PRT
272 <213> ORGANISM: SYNTHETIC CONSTRUCT
274 <220> FEATURE:
275 <221> NAME/KEY: PEPTIDE
276 <222> LOCATION: (1)..(1)
277 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
280 <400> SEQUENCE: 10
282 Cys Leu Leu Ser Glu Gly
283 1 5
285 <210> SEQ ID NO: 11
286 <211> LENGTH: 6
287 <212> TYPE: PRT
288 <213> ORGANISM: SYNTHETIC CONSTRUCT

RAW SEQUENCE LISTING DATE: 11/13/2000
 PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\11132000\I374338.raw

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290 <220> FEATURE:
291 <221> NAME/KEY: PEPTIDE
292 <222> LOCATION: (1)..(1)
293 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
296 <400> SEQUENCE: 11
298 Cys Ser Arg Ser Arg Gly
299 1 5
301 <210> SEQ ID NO: 12
302 <211> LENGTH: 6
303 <212> TYPE: PRT
304 <213> ORGANISM: SYNTHETIC CONSTRUCT
306 <220> FEATURE:
307 <221> NAME/KEY: PEPTIDE
308 <222> LOCATION: (1)..(1)
309 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
312 <400> SEQUENCE: 12
314 Cys Ser Arg His Arg Gly
315 1 5
317 <210> SEQ ID NO: 13
318 <211> LENGTH: 6
319 <212> TYPE: PRT
320 <213> ORGANISM: SYNTHETIC CONSTRUCT
322 <220> FEATURE:
323 <221> NAME/KEY: PEPTIDE
324 <222> LOCATION: (1)..(1)
325 <223> OTHER INFORMATION: 1st amino acid is pyranosyl RNA
328 <400> SEQUENCE: 13
330 Cys His Arg Tyr Arg Gly
331 1 5
333 <210> SEQ ID NO: 14
334 <211> LENGTH: 6
335 <212> TYPE: DNA
336 <213> ORGANISM: SYNTHETIC CONSTRUCT
338 <220> FEATURE:
339 <221> NAME/KEY: modified_base
340 <222> LOCATION: (1)..(6)
341 <223> OTHER INFORMATION: Entire sequence is pyranosyl RNA
344 <400> SEQUENCE: 14
345 cccggg
348 <210> SEQ ID NO: 15
349 <211> LENGTH: 7
350 <212> TYPE: DNA
351 <213> ORGANISM: SYNTHETIC CONSTRUCT
353 <220> FEATURE:
354 <221> NAME/KEY: modified_base
355 <222> LOCATION: (1)..(7)
356 <223> OTHER INFORMATION: Entire sequence is pyranosyl RNA
359 <220> FEATURE:
360 <221> NAME/KEY: modified_base

```

6

FWI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/374,338

DATE: 11/13/2000

TIME: 17:24:44

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11132000\I374338.raw

L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31